OIPE
FEB 27 2004
PATENT & TRADEMARK OFFICE

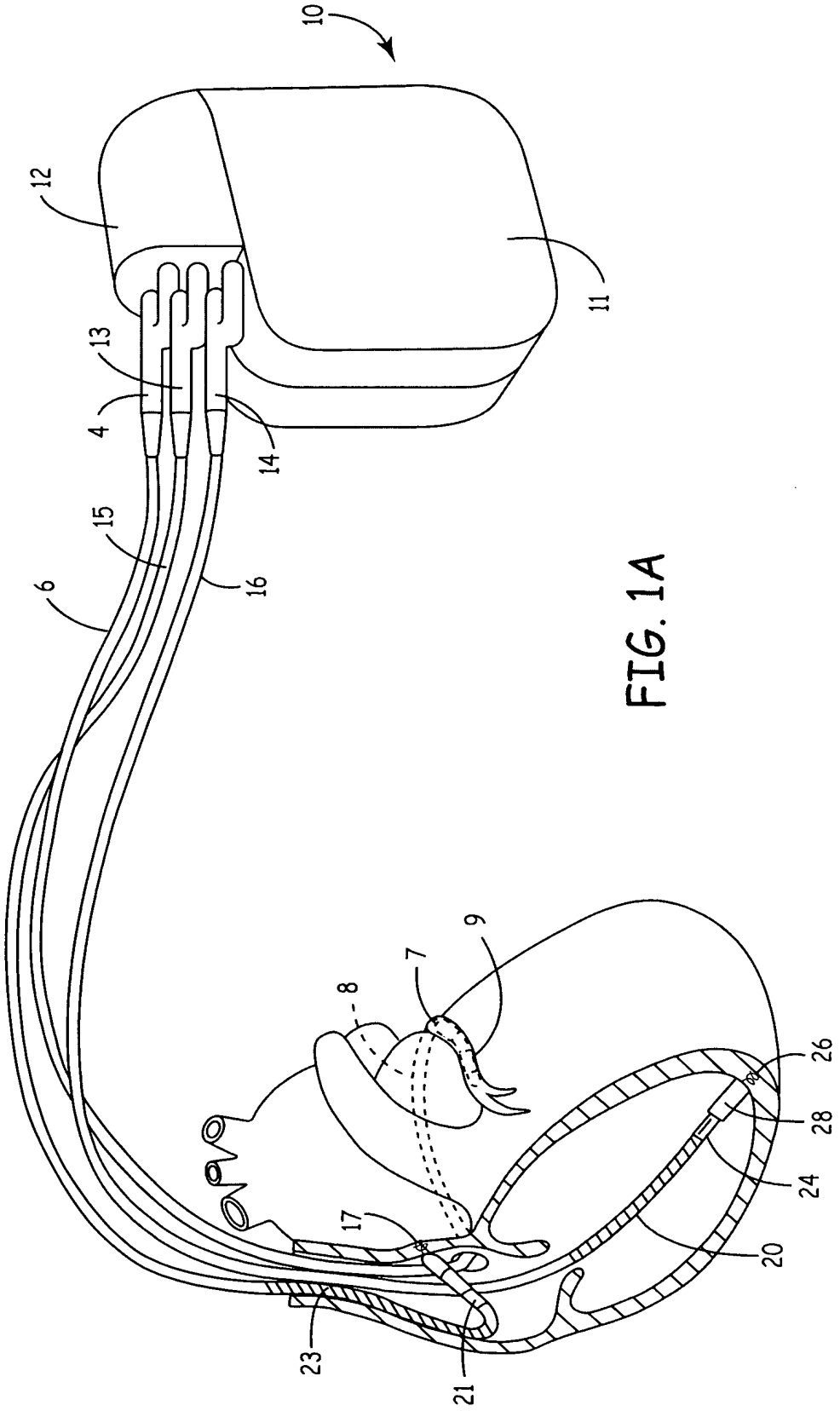

FIG. 1A

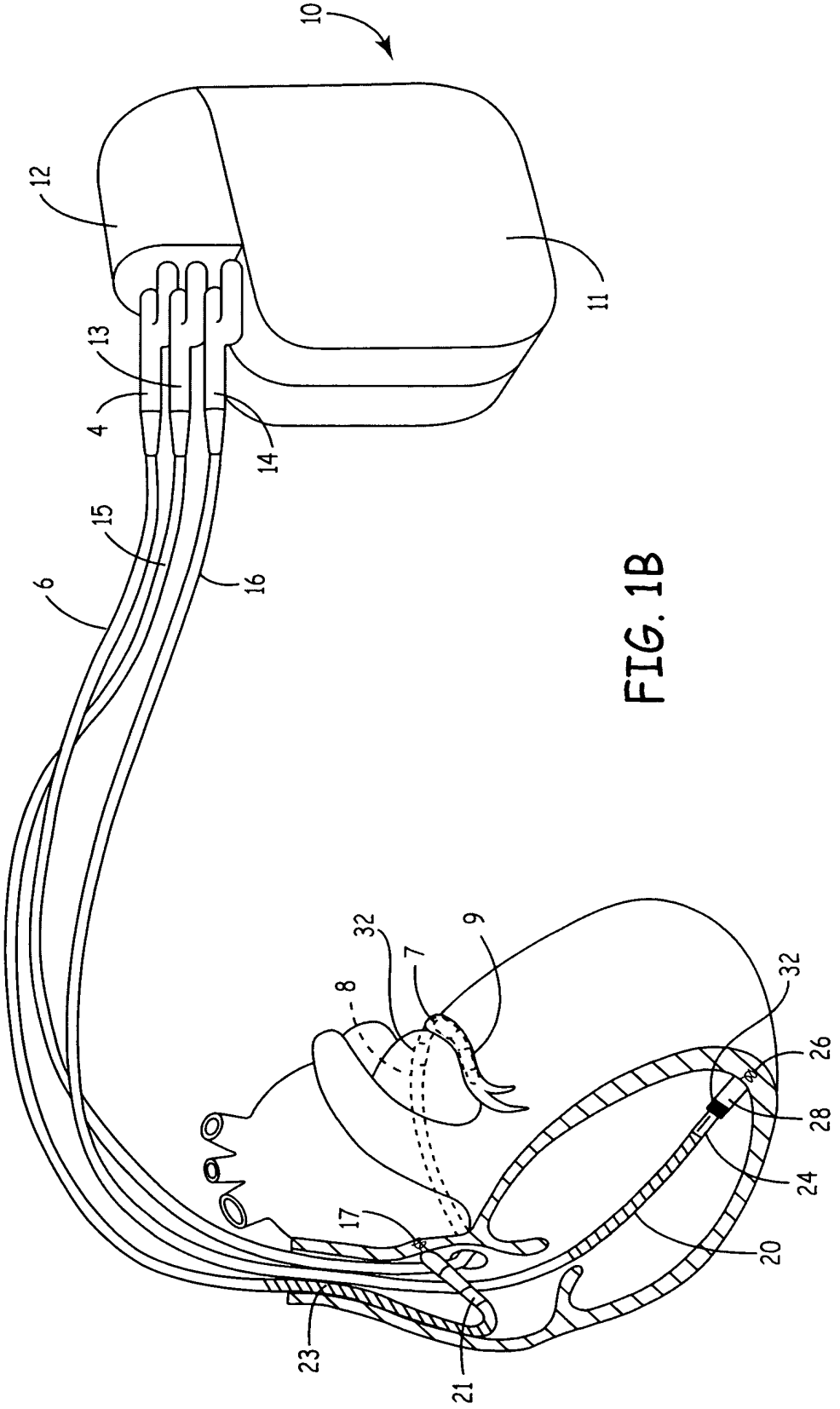

FIG. 1B

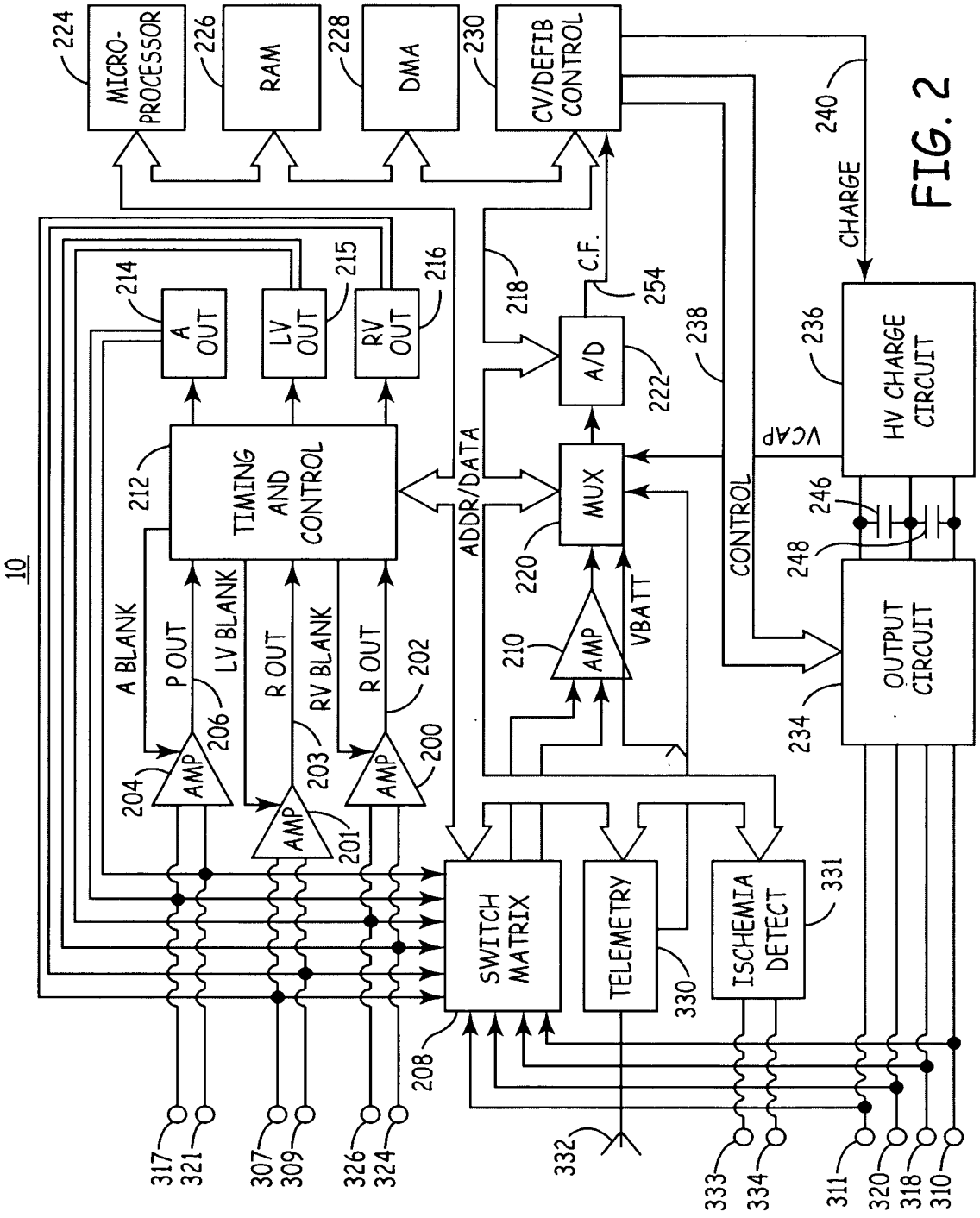
10
224
MICRO-PROCESSOR
226
RAM
228
DMA
230
CV/DEFIB CONTROL
240
CHARGE
214
A OUT
215
LV OUT
216
RV OUT
218
A/D
C.F.
254
238
236
HV CHARGE CIRCUIT
212
TIMING AND CONTROL
ADDR/DATA
MUX
222
VCAP
CONTROL
246
248
220
A BLANK
P OUT
LV BLANK
R OUT
RV BLANK
R OUT
202
206
203
200
204
201
AMP
210
VBATT
OUTPUT CIRCUIT
234
SWITCH MATRIX
TELEMETRY
ISCHEMIA DETECT
331
330
208
317
321
307
309
326
324
332
333
334
311
320
318
310

FIG. 2

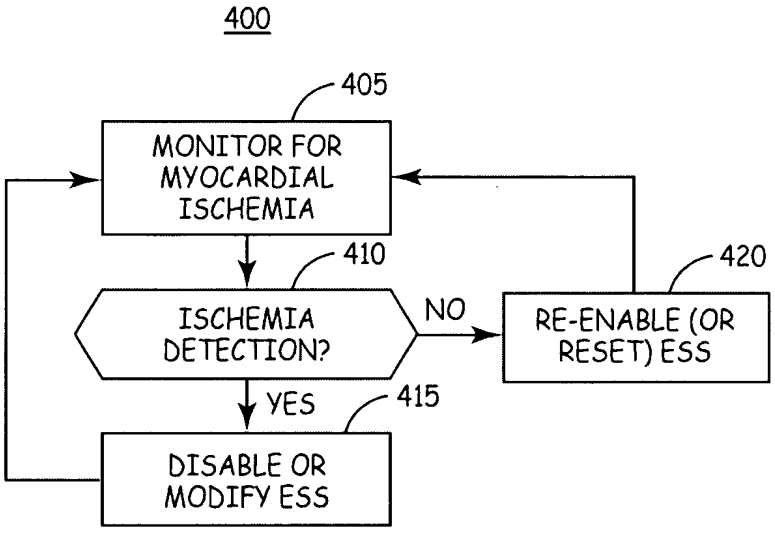
400
405
MONITOR FOR MYOCARDIAL ISCHEMIA
410
ISCHEMIA DETECTION?
NO
420
RE-ENABLE (OR RESET) ESS
YES
415
DISABLE OR MODIFY ESS

FIG. 3

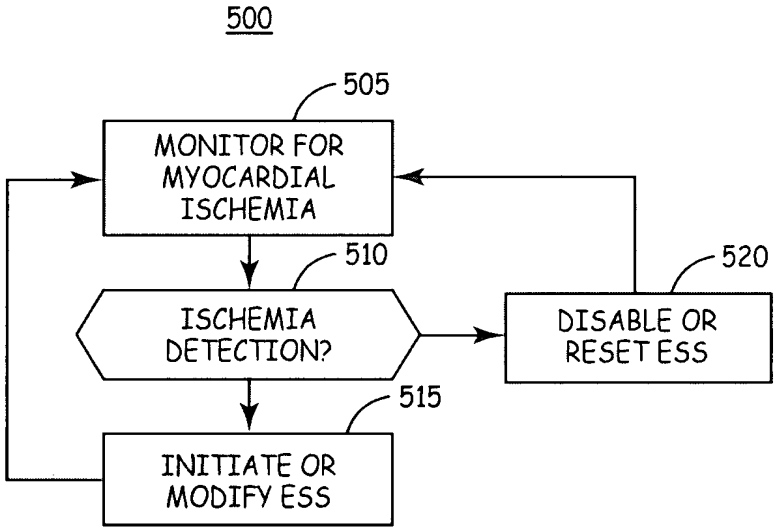
500
505
MONITOR FOR MYOCARDIAL ISCHEMIA
510
ISCHEMIA DETECTION?
520
DISABLE OR RESET ESS
515
INITIATE OR MODIFY ESS

FIG. 4

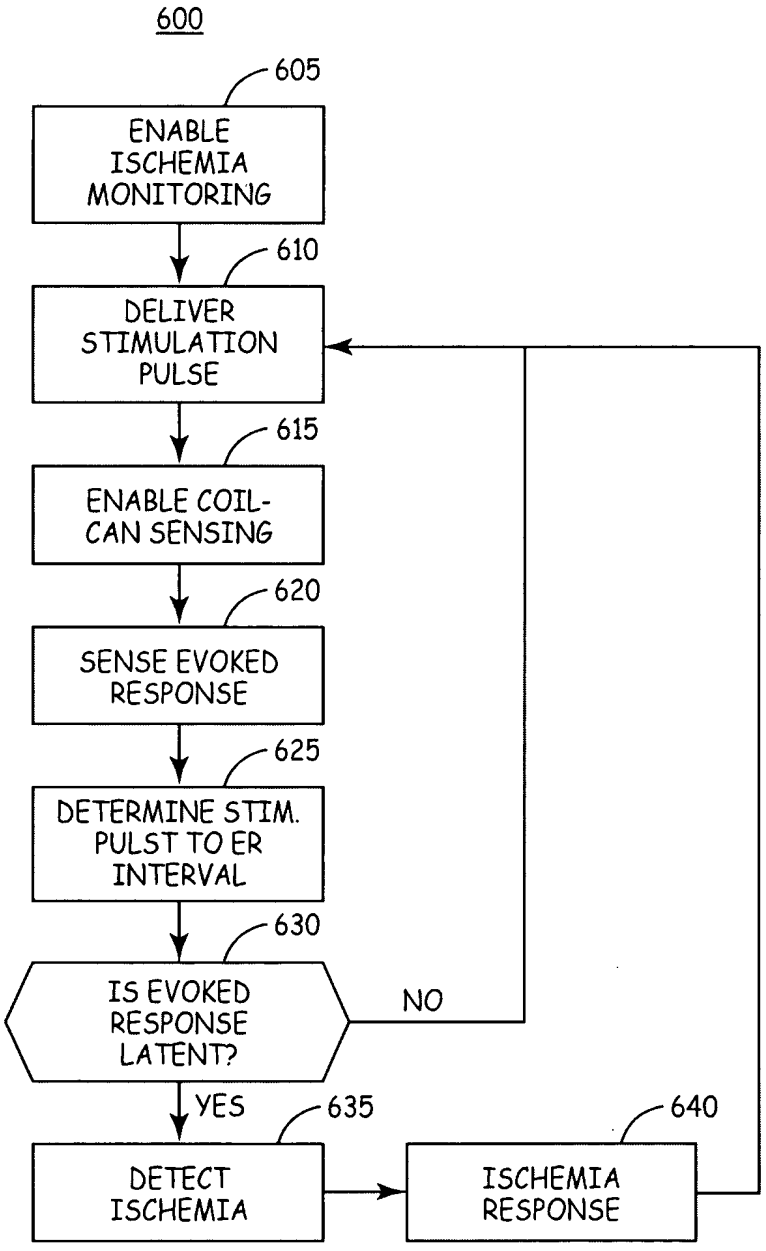
600
605
ENABLE ISCHEMIA MONITORING
610
DELIVER STIMULATION PULSE
615
ENABLE COIL-CAN SENSING
620
SENSE EVOKED RESPONSE
625
DETERMINE STIM. PULST TO ER INTERVAL
630
IS EVOKED RESPONSE LATENT?
NO
YES
635
DETECT ISCHEMIA
640
ISCHEMIA RESPONSE

FIG. 5

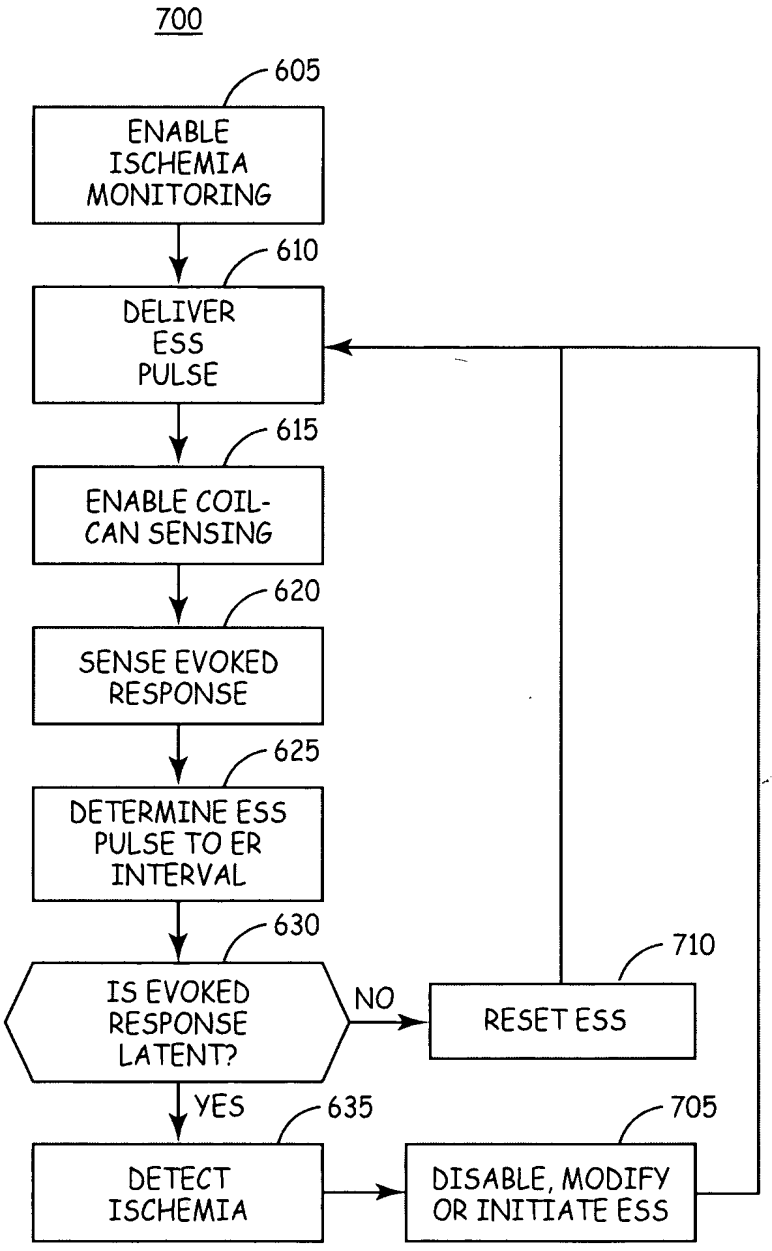
700
605
ENABLE ISCHEMIA MONITORING
610
DELIVER ESS PULSE
615
ENABLE COIL-CAN SENSING
620
SENSE EVOKED RESPONSE
625
DETERMINE ESS PULSE TO ER INTERVAL
630
IS EVOKED RESPONSE LATENT?
NO
710
RESET ESS
YES
635
DETECT ISCHEMIA
705
DISABLE, MODIFY OR INITIATE ESS

FIG. 6